

Attorney Docket No. P092-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Satyadev, et al.

Art Unit: Not Yet Assigned

Serial No.: 10/627,302

Examiner: Not Yet Assigned

Filed: July 24, 2003

For: **MICROMIRROR ARRAY HAVING REDUCED GAP BETWEEN ADJACENT
MICROMIRRORS OF THE MICROMIRROR ARRAY**

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR 1.97(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-145

Sir:

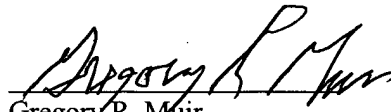
The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached PTO Form 1449. Copies of the cited references are enclosed.

No fee or certification is required in connection with this Information Disclosure Statement, since it is being submitted prior to the last of (1) issuance of a first official action on the merits and (2) expiration of the three month period following filing of the above-captioned application.

The above information is presented so that the Patent and Trademark Office can determine any materiality thereof to the claimed invention. It is respectfully requested that the information be considered during the prosecution of this application and that the cited documents be listed on the front page of any patent issuing from this application.

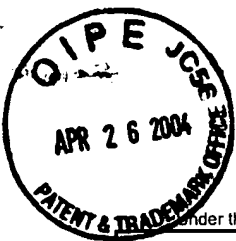
The Patent Office is authorized to charge our Deposit Account No. 501516 for any fee which it deems to be required to effect consideration of this statement.

Respectfully submitted,


Gregory R. Muir
Attorney for Applicant(s)
Registration No. 35,293

REFLECTIVITY, INC.
350 Potrero Avenue
Sunnyvale, CA 94085

Tel: 408) 737-8100 x. 136
Fax: 408-737-8153



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This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08A (10-01)
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/627,302
				Filing Date	7/24/03
				First Named Inventor	Patel, et al
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	10	Attorney Docket Number	P092-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number- Kind Code ² (if known)			
	AA	US- 3,511,727	05-12-1970	Hays, R.G.	
	AB	US- 4,190,488	02-26-1980	Winters, H.F.	
	AC	US- 4,310,380	12-12-1982	Flamm et al.	
	AD	US- 4,498,953	02-12-1985	Cook et al.	
	AE	US- 4,695,700	09-22-1987	Provence et al.	
	AF	US- 4,740,410	04-26-1988	Muller et al.	
	AG	US- 4,749,440	06-07-1988	Blackwood et al.	
	AH	US- 4,789,426	12-06-1988	Pipkin, M.A.	
	AI	US- 5,206,471	04-27-1993	Smith, D.K.	
	AJ	US- 5,330,301	07-19-1994	Brancher, C.D.	
	AK	US- 5,439,553	08-08-1995	Grant et al.	
	AL	US- 5,534,107	07-09-1996	Gray et al.	
	AM	US- 5,672,242	09-30-1997	Jen.	
	AN	US- 5,716,495	02-10-1998	Butterbaugh et al.	
	AO	US- 5,726,480	03-10-1998	Pister, K.S.	
	AP	US- 5,753,073	05-19-1998	Jen.	
	AQ	US- 5,757,456	05-26-1998	Yamazaki et al.	
	AR	US- 5,835,256	11-10-1998	Huibers, A.	
	AS	US- 5,858,065	01-12-1999	Li et al.	
	AT	US- 6,436,229	08-20-2002	Tai et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)				
	BA	EP-0704884-A2	04-03-1996	Mehta, J.		
	BB	EP-0822582-A2	02-04-1998	Bhardwaj, J.K.		
	BC	EP-0822584-A2	04-04-1998	Bhardwaj, J.K.		
	BD	EP-0838839-A2	04-29-1998	Bhardwaj, J.K.		
	BE	EP-0878824-A2	11-18-1998	McQuarrie et al.		
	BF	EP-0878824-A3	01-19-2000	McQuarrie et al.		
	BG	EP-0955668-A2	11-10-1999	Yao et al.		
	BH	WO-98/05605	02-12-1998	Bhardwaj, J.K.		
	BI	WO-98/13856	04-02-1998	Bhardwaj, J.K.		
	BJ	WO-98/32163	07-23-1998	Tai et al.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/627,302
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				First Named Inventor	Patel, et al
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
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		Number - Kind Code ² (if known)			
	AU	US- 6,051,503	04-18-2000	Bhardwaj, J.K.	
	AV	US- 6,162,367	12-19-2000	Tai et al.	
	AW	US- 6,277,173 B1	08-21-2001	Sadakata et al.	
	AX	US- 6,290,864 B1	09-18-2001	Patel et al.	
	AY	US- 6,328,801 B1	12-11-2001	Gary et al.	
	AZ	US- 6,334,928 B1	03-12-2002	Sekine et al.	
	AAA	US- 6,355,181 B1	03-12-2002	McQuarrie, A.D.	
	AAB	US- 2001/0002663 A1	06-07-2001	Tai et al.	
	AAC	US- 2002/0033229 A1	03-21-2002	Lebouitz et al.	
		US- 2002/0196524 A1	12-26-2002	Huibers, et al.	
		US- 2003/0054588 A1	03-20-2003	Patel, et al.	
		US- 2002/0185699	12-12-2002	Reid	
		US- 2002/0121502 A1	09-15-2002	Patel, et al.	
		US- 2002/0047172 A1	04-25-2002	Reid	
		US- 6,290,864 B1	09-18-2001	Patel, et al.	
		US- 5,835,293	11-10-1998	Min, et al.	
		US- 5,917,045	06-29-1999	Lewis, et al.	
		US- 6,104,425	08-15-2000	Kanno	
		US- 5,757,539	05-26-1998	Min	
		US- 6,197,610 B1	03-06-2001	Toda	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	BK	WO-99/01887	01-14-1999	Lea et al.		
	BL	WO-99/03313	01-21-1999	Lea et al.		
	BM	WO-99/49506	09-30-1999	McQuarrie, A.D.		
	BN	WO-00/52740	08-08-2000	Bhardwaj et al.		
	BO	JP-1982/57098679-A	06-18-1982	Tsunetoshi, A.		
	BP	JP-1983/58130529-A	08-04-1983	Yoshihiro et al.		
	BQ	JP-1985/60057938-A	04-03-1985	Katsumi et al.		
	BR	JP-1986/61053732-A	03-17-1986	Arata et al.		
	BS	JP-1986/61134019-A	06-21-1986	Shinji et al.		
	BT	JP-1986/61181131-A	08-13-1986	Shinji et al.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/627,302
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		Number - Kind Code ² (if known)			
		US- 6,409,876 B1	06-25-2002	McQuarrie, et al.	
		US- 6,396,619 B1	05-28-2002	Huibers, et al.	
		US- 6,449,079	09-10-2002	Herrmann	
		US- 5,696,619	12-09-1997	Knipe, et al.	
		US- 5,729,074	03-17-1998	Shiomi, et al.	
		US- 5,994,750	11-30-1999	Yaqi	
		US- 6,020,215	02-01-2000	Yaqi, et al.	
		US- 6,479,920 B1	11-12-2002	Lal, et al.	
		US- 6,238,581	05-29-2001	Hawkins, et al.	
		US- 5,262,000	11-16-1993	Welbourn, et al.	
		US- 5,441,597	08-15-1995	Bonne, et al.	
		US- 6,203,715 B1	03-20-2001	Kim, et al.	
		US- 6,115,172	09-05-2000	Jeong	
		US- 6,204,080	03-20-2001	Hwang	
		US- 5,696,620	12-09-1997	Kim	
		US- 5,701,192	12-23-1997	Ji, et al.	
		US- 5,702,569	12-30-1997	Park, et al.	
		US- 5,774,256	06-30-1998	Min, et al.	
		US- 5,822,109	10-13-1998	Jeon	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	BU	JP-1986/61187238-A	08-20-1986	Nobuo et al.		
	BV	JP-1986/61270830-A	12-01-1986	Toru, T.		
	BW	JP-1987/62071217-A	04-01-1987	Toru et al.		
	BX	JP-1988/63155713-A	06-28-1988	Tadashi, F.		
	BY	JP-1989/01208834-A	08-22-1989	Nobuo et al.		
	BZ	JP-1989/10217921-A	08-31-1989	Tsuneo et al.		
	CA	JP-1990/02250323-A	10-08-1990	Susumu et al.		
	CB	JP-1991/03012921-A	01-21-1991	Nobuo et al.		
	CC	JP-1992/04096222-A	03-27-1992	Atsuyuki, A.		
	CD	JP-1995/07029823-A	01-31-1995	Hiroshi, T.		

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		Filing Date	7/24/03
		First Named Inventor	Patel, et al
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet	4	of	10
		Attorney Docket Number	P092-US

U.S. PATENT DOCUMENTS					
Examiner Initials ⁷	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 2002/0164879 A1	11/07/02	Leung, et al.	
		US- 2002/0163051 A1	11/07/02	Gopal, et al.	
		US- 2003/0077878 A1	04/24/03	Kumar, et al.	
		US- 2003/0124848 A1	07/03/03	Chinn, et al.	
		US- 2003/0217693 A1	11/27/03	Rattner, et al.,	
		US- 2003/0219986 A1	11/27/03	Rattner, et al.,	
		US- 6,576,489 B2	06/10/03	Leung, et al.	
		US- 2003/0166342 A1	09/04/03	Chinn, et al.	
		US- 6,500,356 B2	12/31/02	Goto, et al.	
		US- 2003/0071015 A1	04/17/03	Chinn, et al.	
		US- 2002/0024641 A1	02/28/02	Ilkov, et al.	
		US- 6,523,961 B2	02/25/03	Ilkov, et al.	
		US- 2003/0234994 A1	12/25/03	Pan	
		US- 2004/0004753 A1	01/08/04	Pan	
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FOREIGN PATENT DOCUMENTS						
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		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)			
	CE	JP	1997/09251981-A	09-22-1997	Kazuaki et al.	
	CF	JP	1998/10313128-A	11-24-1998	Hanmin et al.	
	CG	JP	1998/10317169-A	12-02-1998	McQuarrie et al.	
		WO	2004/000720 A1	12/31/03	Pan, et al.	
		WO	2004/001487 A2	12/31/03	Pan, et al.	

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			Filing Date	7/24/03
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			Group Art Unit	Not Yet Assigned
			Examiner Name	Not Yet Assigned
			Attorney Docket Number	P092-US
Sheet	5	of	10	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	DA	ALIEV et al., "Development of Si(100) Surface Roughness at the Initial Stage of Etching in F2 and XeF2 Gases Ellipsometric Study", Surface Science 442 (1999), pp. 206-214.	
	DB	GLIDEMEISTER, J.M., "Xenon Difluoride Etching System" (Nov. 17, 1997).	
	DC	HABUKA et al., "Dominant Overall Chemical Reaction in a Chlorine Trifluoride-Silicon-Nitrogen System at Atmospheric Pressure", Japan Journal of Applied Physics Vol. 38 (1999), pp. 6466-6469.	
	DD	HECHT et al., "A Novel X-ray Photoelectron Spectroscopy Study of the Al/SiO2 Interface", J. Appl. Phys. Vol. 57 (June 15, 1985), pp. 5256-5261.	
	DE	HOULE, F.A., "Dynamics of SiF4 Desorption During Etching of Silicon by XeF2", IBM Almaden Research Center (April 15, 1987), pp. 1866-1872.	
	DF	FLAMM et al., "XeF2 and F-Atom Reactions with Si: Their Significance for Plasma Etching", Solid State Technol. 26, 117 (1983).	
	DG	IBBOTSON et al., "Plasmaless Dry Etching of Silicon with Fluorine-containing Compounds", J. Appl. Phys. Vol. 56 No. 10 (Nov. 1984), pp. 2939-2942.	
	DH	IBBOTSON et al., "Comparison of XeF2 and F-atom Reactions with Si and SiO2", Applied Physics Letter, Vol. 44, 1129 (1984).	
	DI	STRELLER et al., "Selectivity in Dry Etching of Si (100) and XeF2 and VUV Light", Elsevier Science B.V., Applied Surface Science Vol. 106 (1996), pp. 341-346.	
	DJ	VUGTS et al., "Si/XeF2 Etching: Temperature Dependence", J. Vac. Sci. Technol. A 14(5) (Sep/Oct 1996), pp. 2766-2774.	
	DK	Y.K. Fang, et al., The Compatibility of Aluminum Layers on Plasma-Deposited W and WSi2 Films, , 1988 IEEE, IEEE Transactions on Electron Devices, Vol. 35, No. 5, May 1988.	

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Application Number	10/627,302			
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First Named Inventor	Patel. et al			
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Examiner Name	Not Yet Assigned			
Attorney Docket Number	P092-US			

Sheet	6	of	10
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	DL	WINTERS, H.F., "Etch Products from the Reaction of XeF ₂ with SiO ₂ , SiO ₃ , Si ₃ N ₄ , SiC, and Si in the Presence of Ion Bombardment", J. Vac. Sci. Technol. B 1(4) (Oct/Dec 1983), pp. 927-931.	
	DM	WINTERS et al., "The Etching of Silicon with XeF ₂ Vapor", Appl. Phys. Letter, Vol. 34(1) (January 1, 1979), pp. 70-73.	
	DN	XACTIX, Inc., Marketing Brochure (June 27, 1999).	
	DO	"Xenon Difluoride Isotropic Etch System: Seeing is Believing", Surface Technology Systems Ltd. brochure, Newport, UK (date unknown).	
	DP	Assorted promotional literature, Surface Technology Systems Ltd., Newport, UK (July 28, 1999).	
		Kurt Williams, Etch Rates for Micromachining Processing-Part II, 2003 IEEE, Pgs 761-778, Journal of Microelectromechanical Systems, Vol. 12, No. 6, December 2003.	
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	BA	ANDERSON, H.M., "Plasma Diagnostics for Semiconductor Processing", 2000 Digest of the LEOS Topical Meetings (July 24 - 28, 2000), pp. 117-118 (abstract only).	
	BB	BARYSHEV et al., "Monitoring of SiO_2/Si Plasma Etching and End-Point Detection", Mikroelektronika (Russia), Vol. 25, No. 5 (Sept/Oct 1996), pp. 373-379 (abstract only).	
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	BF	CHAN et al., "Gas Phase Pulse Etching of Silicon for MEMS with Xenon Difluoride", Engineering Solutions for the Next Millenium: 1999 IEEE Canadian Conference on Electrical and Computer Engineering, Edmonton, Alberta, Vol. 3 (May 9 - 12, 1999), pp. 1637-1642 (abstract only).	
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	BH	CHEN et al., "Spatially Resolved Endpoint Detector for Plasma Etcher", 1997 IEEE International Symposium on Semiconductor Manufacturing Conference Proceedings, San Francisco, CA (Oct. 6 - 8, 1997), pp. B45 - B48 (abstract only).	
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	BL	LI et al., "Mass Spectrometric Measurements on Inductively Coupled Fluorocarbon Plasmas: Positive Ions, Radicals and Endpoint Detection", J. Vac. Sci. Technol. A, Vac. Surf. Films, Vol. 17, No. 5 (Sept. 1997), pp. 2438-2446 (abstract only).	
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	BN	LITVAK, H.E., "End Point Control Via Optical Emission Spectroscopy", J. Vac. Sci. Technol. B, Microelectron. Nanometer Struct., Vol. 14, No. 1 (Jan/Feb 1996), pp. 516-520 (abstract only).	
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	BP	MAYNARD et al., "Plasma Etching of Submicron Devices: In Situ Monitoring and Control by Multi-Wavelength Ellipsometry", Thin Solid Films (Switzerland), Vol. 313-314, No. 1-2 (Feb. 1998), pp. 398-405 (abstract only).	
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	BW	SEBEL et al., "Reaction Layer Dynamics in Ion-Assisted Si/XeF ₂ Etching: Temperature Dependence", J. Vac. Sci. Technol. A, Vac. Surf. Films, Vol. 18, No. 6, (Nov. 2000), pp. 2759-2769 (abstract only).	
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	CD	VUGTS et al., "Si/XeF ₂ Etching: Temperature Dependence", J. Vac. Sci. Technol. A, Vac. Surf. Films, Vol. 14, No. 5 (Sept/Oct 1996), pp. 2766-2774 (abstract only).	
	CE	WAN et al., "Electron Cyclotron Resonance Plasma Reactor for SiO ₂ Etching: Process Diagnostics, End-Point Detection, and Surface Characterization", J. Vac. Sci. Technol. A, Vac. Surf. Films, Vol. 13, No. 4 (July/Aug 1995), pp. 2035-2043 (abstract only).	
	CF	WANG et al., "Gas-Phase Silicon Etching with Bromine Trifluoride", International Solid State Sensors and Actuators Conference (Transducers '97), Chicago, IL, Vol. 2 (June 16 - 19, 1997), pp. 1505-1508 (abstract only).	
	CG	WARD, P.P., "Plasma Process Control with Optical Emission Spectroscopy", 17th IEEE/CPMT International Electronics Manufacturing Technology Symposium: Manufacturing Technologies - Present and Future, Austin, TX (Oct. 2 - 4, 1995), pp. 166-169 (abstract only).	

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	CH	WARNEKE, et al., "In Situ Characterization of CMOS Post-Process Micromachining", Sens. Actuators A, Phys. (Switzerland), Vol. A89, No. 1-2 (March 20, 2001), pp. 142-151 (abstract only).	
	CI	WELCH et al., "Breaking the 0.5 Percent Exposed Area Etch Endpoint Barrier", Semicond. Int., Vol. 19, No. 8 (July 1996), pp. 269-270, 272, 274, 276 (abstract only).	
	CJ	WODECKI, N.D., Low Open Area Multi-Layered Dielectric Film Etch Endpoint Detection Using EndPoint Plus (TM)", Proceedings of the SPIE - The International Society for Optical Engineering, Vol. 3882 (1999), pp. 231-238 (abstract only).	
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